

## Corrugated tubular superconductor especially for HF cable

**Patent number:** DE19724618  
**Publication date:** 1998-12-17  
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**Classification:**  
**- international:** C04B35/45; H01B12/12; H01L39/14; C04B35/01;  
H01B12/12; H01L39/14; (IPC1-7): C04B35/45;  
C04B35/505; H01B12/12; H01B13/00  
**- european:** C04B35/45D2; H01B12/12; H01L39/14B  
**Application number:** DE19971024618 19970611  
**Priority number(s):** DE19971024618 19970611

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### Abstract of DE19724618

In a superconductor consisting of a longitudinally seam welded corrugated metal tube with a superconductive ceramic layer, the wall of the superconductor consists of a metallic support (11) onto which a metal foil (12), bearing the superconductive layer (13), is applied by an adhesion promoter (14). Preferably, the metallic support consists of a metal, e.g. special steel or copper, suitable for cryogenic use and the metal foil is a nickel foil. Also claimed is a high frequency (HF) cable with the above superconductor as the external conductor. Further claimed is a process for producing a superconductor from a metal strip, provided with a superconductive ceramic mixed oxide layer, by shaping the strip to form a tube, welding the longitudinal edges and then corrugating, the novelty being that a superconductive layer-coated metal foil is applied to the tube interior-forming surface of the strip by an adhesion promoter such that the superconductive layer forms the interior surface of the tube.

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